

## 5MS Program Consultative Forum (PCF) Meeting Notes

MEETING: 12  
 DATE: Thursday, 4 July 2019  
 TIME: 10:00 AM – 1:00 PM  
 LOCATION: AEMO Offices in Melbourne, Sydney, Brisbane, and remotely by WebEx  
 ATTENDEES:

ATTENDEE	ORGANISATION	OFFICE
Chris Muffett	AEMO (Chair)	Sydney
Emily Brodie	AEMO	Sydney
Darren Pace	Alinta Energy	Sydney
Hamish McNeish	AEMO	Brisbane
Blaine Miner	AEMO	Brisbane
Gerard Dunne	Stanwell Corporation	Brisbane
Price Strader	Stanwell Corporation	Brisbane
Nicole Bright	Energex	Brisbane
Robert Pane	InterGen	Brisbane
Sonja Nigmann	AEMO	Melbourne
Peter Carruthers	AEMO	Melbourne
Sammy Wainrit	AEMO	Melbourne
Greg Minney	AEMO	Melbourne
Robert Lo Giudice	IntelliHUB Pty Ltd	Melbourne
Deb Senior	United Energy	Melbourne
Cameron Bath	Energy Australia	Melbourne
Jamie Lowe	Engie	Melbourne
Wayne Rau	Engie	Melbourne
Malcolm Hempel	Tango Energy	Melbourne
Ben Pryor	ERM Power	Melbourne
Bree Jeffreys	AEMO	Norwest
David Woods	SA Power Networks	Remote - WebEx
Divya Kapoor	Flow Power	Remote - WebEx
Linda Brackenbury	Plus ES	Remote - WebEx
Paul Greenwood	Vector AMS	Remote - WebEx
Leanne Rees	TasNetworks	Remote - WebEx
Jeff Roberts	Evo Energy	Remote - WebEx
Prabpreet Calais	AEMC	Remote - WebEx
Linda Whatman	Energy Queensland	Remote - WebEx
Nathan Reeve	Energy Australia	Remote - WebEx
Elizabeth Byrne	Stanwell Corporation	Remote - WebEx
Ingrid Farah	Ergon Energy	Remote - WebEx
Georgina Snelling	Energy Australia	Remote - WebEx
Mark Williamson	EnergyQ	Remote - WebEx
Naomi Donohue	APA Group	Remote - WebEx
Hugh Macfarlane	Snowy Hydro	Remote - WebEx
Cindy Matthews	Ergon Energy	Remote - Telephone
Martin Ralph	Hydro Tasmania	Remote - Telephone
Sewwandi Charman	Origin Energy	Remote - Telephone

**Note: several attendees who joined through telephone dial in were not identified**

### Preliminary Matters

## **1. Welcome, introduction, attendance and apologies – C. Muffett (slides 1-2)**

AEMO noted apologies from Monica Morona (AEMO).

AEMO noted that the meeting was being recorded for the purposes of preparing meeting notes.

## **2. Minutes and actions from previous meeting – C. Muffett (slides 3-4)**

The PCF confirmed the notes of meeting 11 held on 7 June 2019. AEMO noted three outstanding actions from previous meetings, with the status updated in the table at the end of the notes.

Action 10.11.1 – AEMO confirmed that email has been sent to SWG, PWG and Dispatch Focus Group.

Action 11.3.1 – AEMO proposed an assessment process for milestone changes, as discussed under agenda item 2a.

Action 11.3.2 - Milestone reporting classifications have been updated, and MPP file includes milestone dependencies.

### **2a. Milestone Change Assessment Approach – G. Windley (slides 5-6)**

AEMO proposed an approach to assessing the impact of potential milestone changes, which involves a collaborative process with the PCF and relevant working groups. The proposed content of forms to capture key information was included in the slides.

PCF Members provided feedback on the approach and were broadly supportive of the approach being taken.

## **Matters for Noting**

### **3. Program Update – G. Windley (slides 7-15)**

The 5MS Program update was presented in slides 9-10:

- AEMO noted the Program overall is tracking according to schedule and noted level 2 milestones which were discussed at the last SWG and feedback has been provided by the industry.
- Procedures workstream continues to track as green and ahead of schedule despite delay to a couple of documents. Relevant technical specifications are being complete to go with Procedures updates.
- The first RWG was held Thursday 27 June.
- Metering workstream – AEMO has complete internal work of design frames for metering build of MDM and PAE.
- Dispatch workstream – tracking to schedule with development. Final draft technical specification distributed 28 June.
- Settlements workstream – has begun developing and testing packages. A number of technical specifications are still in progress.

Alinta queried the impact the delay in Metering Package 2 would have on the design and build of AEMO systems. AEMO advised that there is no impact identified to AEMO's system build.

AEMO presented two milestone changes to the PCF based on delays to metering package 2 in slides 10-11.

Energy Queensland sought clarity for the basis of the delay. AEMO confirmed that the scope change is solely for the purpose of internal alignment and the change of dates to allow for completion the Procedures work, which will then flow through to the Systems Technical Specifications. AEMO also confirmed that the proposed change was raised at the SWG and members were provided with the opportunity for feedback on the proposed change by 26 June. AEMO noted that no significant concerns were received from MDPs on the proposed change.

PCF Members noted potential impacts from the delay in finalising Technical Specifications to industry build activities, particularly in relation to engaging vendors. Members noted that it would be of assistance if areas of contention or at risk of change are highlighted in the draft Technical Specifications were highlighted.

**Action 12.3.1 – AEMO to highlight areas within draft Technical Specifications that are at risk of changing as a result of Metering Package 2 consultation.**

PCF Members questioned the time contingency AEMO has provided in the Program for industry to prepare for implementation and at what point there would be concerns regarding delays reducing this time contingency. AEMO confirmed that this is the basis for developing the milestone management approach so that there is visibility of AEMO's dates to enable complementary planning by industry; this is also why AEMO is consulting on any milestone changes via the Milestone Change Impact Assessment Framework.

AEMO noted that it would include in the Milestone Change Impact Assessment a reference to critical path dependencies and what if any critical path is impacted by the change in milestones.

Alinta noted that the most important part for industry was the finalisation of Technical Specifications, noted that AEMO had outlined that there was likely to be enough information in the current drafts to support the build needs of industry.

Stanwell requested that draft dates were also included in the MPP files, in addition to the final dates to assist with industry planning. AEMO requested that question be taken offline for further information to be provided to assist AEMO in providing a response to the request.

**Action 12.3.2 – AEMO to discuss with Stanwell to seek further information on including more detail in MPP files.**

AEMO presented the overall Level 1 and Level 2 milestones in slides 12-15.

AEMO noted an error in the L2-M4 milestone; time adjustment should state a one-month delay.

Stanwell requested for milestone descriptions to be included. AEMO confirmed that the descriptions had been added to the MPP files, but also suggested that the descriptions be added as an appendix to the PCF pack.

**Action 12.3.3 – AEMO to include details of milestone descriptions as an appendix to PCF meeting packs.**

#### **4. Systems Workstream Update – H. McNeish (slides 16-23)**

The Systems Workstream update was provided. AEMO noted that calendar dates have been added for missing dates and at-risk dates will be amended on confirmation.

Alinta queried what “TBC” indicated for the associated dates. AEMO confirmed that this indicated that the date was not yet firm.

##### **Action 12.4.1: AEMO to review staging milestones with “TBC” dates and confirm if these have been made firm.**

AEMO agreed that a copy of slides 17 and 18 would be provided with and without annotations.

AEMO noted that there would be a release on 29 November 2019 of scripts for the data model. This is the wholesale release, covering dispatch and bidding.

PCF members queried whether there would be a limit to the number of participants that could test from this date, would this be staged. AEMO advised that data will be staged and there are no restrictions on the number of participants that may test. AEMO noted that there may be incremental changes following the full data model release.

Energy Queensland queried if the date change would require industry to undertake work over the Christmas period. AEMO noted that the intention was to get the full data model out to industry as soon as possible and noted that it was important to factor in that the data model will be released in stages, with dispatch and bidding delivered on 29 November.

AEMO also noted that Reallocations changes are planned to be released to Staging on 1 November 2019.

##### **Action 12.4.2: AEMO will confirm availability and support of the testing environment, including any shutdown periods over Christmas/New Years.**

AEMO noted that there were no changes to Settlement and Operations level 3 milestones.

AEMO also highlighted that the first draft Reallocations Technical Specifications would be released at the end of July and that AEMO would be looking to make an early drop into the staging environment to support industry in relation to managing forward contracts.

AEMO presented slides 20-22 to update PCF members on the status of technical specifications.

AEMO noted that there was an error in slide 22, the date for the release of the draft Reallocations Technical Specifications is 31 July 2019, not 30 August 2019.

#### **5. Change request Update – C. Muffett (slides 26-28)**

AEMO presented the approach and detail of Change Requests with external implications currently under consideration.

Proposed approach to CR04 – enhancements to 5-minute Pre-dispatch (5MPD) formulation, this will be supported by a change to allow FSIP to be included in 5MPD.

AEMO noted that this will be discussed further at Dispatch Focus Group on 16 July 2019. Finalisation will enable the Systems Workstream to finalise the dates associated with the 5MPD deliverables and dates.

Alinta noted that this was the first time that the one hour minimum had been presented and inquired if the minimum timeframe would be discussed at the Dispatch Focus Group. AEMO confirmed that the proposed approach would be discussed at the Dispatch Focus Group, and invited PCF members to raise any views or concerns with Dispatch Focus Group members so that they can be raised. AEMO noted that the one-hour duration is the minimum rules requirement, and AEMO proposal will ensure this requirement is met.

PCF members requested clarity regarding AEMOs process to developing the proposed approach and sought clarity in relation to the consideration of market impacts.

AEMO noted that input was sought from several forums, including the Dispatch Focus Group and NEM Wholesale Consultative Forum, in particular the quantifiable benefits of changing the timeframe beyond the one hour minimum. AEMO received two submissions on this matter. While AEMO understands that there may be benefit to industry for extending beyond the minimum timeframes, it is proposed that this is not part of the scope and deliverables of the 5MS Program.

Energy Australia requested more detail to be provided on the analysis of 5MPD consideration. AEMO outlined it had previously discussed the effort required for the uplift to enable changes to Pre-dispatch timeframes with the SWG and Dispatch Focus Group.

Jemena noted that the original analysis from the AEMC regarding 5MS that some costs now under consideration were not captured in the original costings analysis; this should be assessed as part of future system redesign to consider for future reforms. AEMO noted that as part of any Program review this would be an important and worthwhile exercise to undertake.

AEMO also highlighted that the rules require a minimum of one-hour for 5MPD and AEMO will deliver an approach that is compliant. Industry subsequently requested AEMO consider extending beyond this requirement. As such, AEMO identified this as a Change Request, and upon review assessed the change required a significant effort (estimated in the order of \$0.5 to \$1 million) to re-develop AEMO's 5MPD processes. AEMOs position is that this work needs to be reviewed beyond only the 5MS changes.

AEMO noted that this discussion required a greater level of detail and encouraged PCF members to ensure that their organisations were prepared to discuss this at the Dispatch Focus Group.

AEMO is currently considering how to best discuss the Change Requests identified through the Reconciliation Workshop, including hosting an additional Reconciliation Workshop. AEMO will confirm the approach in due course noting that further discussion is required.

IntelliHUB noted that no NSPs or MDPs were present at the first Reconciliation Workshop. Vector also pointed that the lack of representation may have been based on the agenda, which appeared to focus mainly on reconciliation between retailers and AEMO. AEMO acknowledged that if a further Reconciliation Workshop is convened, there may be value in NSPs and MDPs being present.

## **6. Readiness Workstream Update – G. Minney (slides 27-32)**

The first Readiness Working Group was held Thursday 27 June.

AEMO presented slides outlining the readiness workstream scope, objectives and definition of total market readiness for 5MS and GS.



IntelliHUB asked if there would be traffic light reporting in regard to participants readiness. AEMO advised that readiness reporting will set criteria for assessment to indicate market readiness.

Stanwell questioned how risks and issues raised in the RWG be presented to the PCF, particularly where matters have been referred to the RWG. AEMO confirmed that a summary of risks would be provided to the PCF, including status and contingency approaches put in place.

Origin queried if readiness reporting feedback will be kept anonymous or shared with participants. AEMO noted that feedback will remain anonymous and AEMO is currently considering the most appropriate level of reporting to ensure this, noting that feedback will likely be reported at participant category level.

Stanwell questioned if the RWG is a decision-making forum. AEMO clarified that it was not, noting this was outlined in the terms of reference. AEMO reiterated that all AEMO 5MS forums/groups are consultative and designed to discuss Program matters and receive views and feedback from industry. Any decisions impacting AEMO's Program are made by the AEMO 5MS Steering Committee, including Peter Geers as business sponsor and Joe Locandro as technology sponsor.

## **7. Procedures Workstream Update – E. Brodie (slides 35-39)**

5MS Procedures Workstream update was presented.

Settlements is on track. Two dispatch packages of non-rules consultative documents published late, in early June. Submissions have closed and received one submission. On track for completion. There is a delay to metering package 3, however no impact to IT solutions or development is expected.

PCF members requested for shading to be removed from n/a fields in Level 3 milestones table to make n/a fields clearer. AEMO agreed to incorporate this change for subsequent meetings.

Metering package 2 submissions closed, and 20 submissions received which were very thorough and contained over 400 points of information for consideration and response. AEMO remains on track for publishing the draft report on 5 August 2019.

AEMO have received several requests to consider extending the timeframe provided for responses to the draft report. This will be discussed at PWG #12 next Friday 12 July and an update provided to the PCF relating to the outcome for the consultation timeframes and approach.

AEMO outlined Procedures consultation and upcoming meetings in slides 36-37. AEMO noted that on slide 37 the date for the next PWG meeting should be Friday 12<sup>th</sup> July.

Alinta queried whether any further working groups will be scheduled. AEMO advised that PWG #13 scheduled for August was previously flagged as the final PWG meeting, however with the ongoing work associated with Metering Package 2, scheduled meetings will likely be extended to September.

## **Matters for Discussion**

### **8. Industry Risks & Issues Review – G. Windley (slides 40-45)**

AEMO presented quarterly review of the 5MS Industry Risk & Issue Register (slides 40-43). The full register is available on the 5MS website [here](#). The following comments were noted on each issue.

- R01 – AEMO will host small generator industry forum and will advise the date when confirmed. No comments received.
- R02 – A number of actions will be handed over to the readiness workstream. No comments received.
- R03 – Actions to be handed over to readiness workstream in relation to dates and times for cutover and transition strategy and market trials.
- R04 – Staged approach to procedure implantation to align with cutover and transition planning.

Stanwell requested AEMO to elaborate on staged approach for clarity. AEMO confirmed that the staged approach will allow for new AEMO systems to be deployed earlier than 1 July 2021, with time to allow participants to transition their systems.

PCF members queried the staged release approach from a market testing perspective; given that different participants are at different stages, members sought clarification from AEMO as to how the market testing would be drawn together. AEMO noted that this approach has been identified through the RWG and that this needs to be considered and reflected as a mitigation in relation to the risks associated with the big bang approach.

Stanwell questioned the rating of R04 as low. AEMO noted that the low rating was assigned as the big bang approach is not the current approach, AEMO is not intending to have a go-live with software deployment on 1 July 2021. However, this risk rating may change if the finding of the Readiness reporting indicates that there will be a larger number of functions undergoing cutover at 1 July.

- R05 – AEMO noted that the risk will need to remain open for longer than November 2019, due to ongoing Procedures consideration throughout implementation and testing, AEMO will look to push this date out by another 12 months.

PCF members noted that this risk is a very broad category and difficult to assess. AEMO noted that this is been given a high level of consideration through the PWG and other working groups. AEMO has encouraged participants to flag issues as they are identified to enable AEMO to respond and amend any identified issues. This will need to continue right through industry development and build stages.

PCF members noted that as there have already been issues identified that have needed to be addressed, therefore should the risk rating be higher this is a risk that has materialised. AEMO noted that while the likelihood is higher, there have not been any issues raised that constitute a significant implementation issue.

- R06 – AEMO is considering adding an action for participants to provide submissions to the AEMC in regard to the amount of regulatory change.
- R07 – AFMA have established a 5MS working group, which AEMO is participating in. PCF members noted the importance of providing certainty in the financial market space and the need for AEMO to be involved in ongoing to ensure that the financial markets are considered in relation to 5MS readiness.

- R08 – AEMO noted that this is linked closely to R05. AEMO will continue to respond to change via all relevant forums.
- R09 – Stanwell asked if AEMO has requested a rule change freeze from the AEMC. AEMO confirmed that it is not AEMO's position to do this. While AEMO noted that it had provided advice to AEMC in regard to proposed rules changes and AEMO's ability to implement within 5MS timelines, AEMO has not suggested a rule change freeze.
- R10 – AEMO noted that a vendor briefing session was held at the end of 2018 with the intention to hold a further briefing session later in 2019. PCF members noted that there is a risk for industry that they do not have sufficient information available to engage vendors or be in a position that contracts will be unaffordable due to the mitigations that will be included in contracts due to a lack of clear requirements. AEMO noted that the action identified earlier to highlight areas of potential risk of change within draft Technical Specifications would help address this.
- R11 – PCF members requested further transparency in reporting around draft Technical Specifications.
- I05 – AEMO is proposing to close on basis of that information has been released around cost of the program, as discussed at Executive Forum in February. A summary was provided to the PCF and clear plan for engagement in place.

Alinta suggested to update the issue with comments, current actions and approach, but leave the issue open due to the pending consultation. AEMO noted this approach and agreed to keep the action open, to be reviewed once consultation has commenced.

**Action 12.8.1: AEMO to update the Industry Risks & Issues Register based on proposed changes and member feedback.**

**Action 12.8.2: PCF members to provide out-of-session comments and feedback on remaining risks (R12-13) and issues (I06-7) and any additional risks or issues.**

## **9. Market Readiness Reporting – G. Minney (slides 44-49)**

AEMO outlined the interim readiness reporting approach presented to the RWG. The approach will be based on a high-level questionnaire to Participants every two months.

IntelliHUB queried whether AEMO expects a separate response if for each participant type if representative of MC, MPD, MDP and MPC, etc. AEMO confirmed that it would require a separate response for each participant type, for participants that cover multiple types of participants.

AEMO presented the draft questionnaire at slide 48.

**Action 12.9.1: PCF Member to provide feedback to AEMO regarding the interim readiness reporting questionnaire via [5ms@aemo.com.au](mailto:5ms@aemo.com.au) by Thursday 11 July 2019.**

AEMO clarified that responses would be consolidated, and anonymised information would be released.

Stanwell queried how Readiness would be able to be baselined if questions are subject to ongoing refinement. AEMO clarified that refinement was referring to improving the quality



and clarity of a question rather than a fundamental change to questions. The objective of refining questions as we go (as needed) is to refine responses.

Stanwell noted that some criteria is wrapped together and asking participants of their understanding of scope and timing of 5 Minute and Global Settlement. From an industry perspective they are only starting to dive into GS, so AEMO might find it easier for participants to respond if this is split out. Stanwell indicated they will send this through as part of feedback.

## **Other business**

### **10. General questions – C. Muffett (slides 50-51)**

No questions raised.

### **11. Forward meeting plan – C. Muffett (slides 52-53)**

The next Program Consultative Forum meeting is scheduled for Thursday 8 August at 10am. Chris Muffett noted that the chair of the PCF will be handed over to Peter Carruthers from the next meeting.

AEMO noted the date of PWG #13 meeting was Monday 12 August 2019 and noted an error on slide 55.

AEMO noted the Executive Forum date is required to be moved with the new date to be confirmed shortly.

AEMO requested any telephone dial-in attendees to send an email to [5ms@aemo.com.au](mailto:5ms@aemo.com.au) for inclusion on the attendees list.

The meeting closed at 1:00pm.

Item	Topic	Action required	Responsible	Status
10.11.1	General questions	AEMO to email to SWG and Dispatch FG seeking information on the merits / benefits and costs of pre-dispatch	Chris Muffett	Completed. AEMO confirmed that email has been sent to SWG, PWG and Dispatch Focus Group.
11.3.1	Program update	AEMO to propose an approach to assessing the impacts of potential milestone changes to industry delivery.	Graeme Windley	Completed. AEMO proposed an assessment process for milestone changes, as discussed under agenda item 2a
11.3.2	Program update	AEMO to confirm milestone reporting classifications	Graeme Windley	Completed. Milestone reporting classifications have been updated, and MPP file includes milestone dependencies.
<b>PCF 12</b>				
12.3.1	Program update	AEMO to highlight areas within draft Technical Specifications that are at risk of changing as a result of Metering Package 2 consultation.	Hamish McNeish	8 August 2019
12.3.2	Program update	AEMO to discuss with Stanwell to seek further information on including more detail in MPP files.	Graeme Windley	8 August 2019
12.3.3	Program update	AEMO to include details of milestone descriptions as an appendix to PCF meeting packs.	Graeme Windley	8 August 2019
12.4.1	Systems Workstream update	AEMO to review staging milestones with "TBC" dates and confirm if these have been made firm.	Hamish McNeish	8 August 2019

12.4.2	Systems Workstream update	AEMO will confirm availability and support of the testing environments, including any shutdown periods over Christmas/New Years.	Graeme Windley	8 August 2019
12.8.1	Industry Risks & Issues Review	AEMO to update the Industry Risks & Issues Register based on proposed changes and member feedback.	Graeme Windley	8 August 2019
12.8.2	Industry Risks & Issues Review	PCF members to provide out-of-session comments and feedback on remaining risks (R12-13) and issues (I06-7) and any additional risks or issues.	PCF Members	26 July 2019
12.9.1	Market Readiness Reporting	PCF members to provide feedback to AEMO regarding the interim readiness reporting questionnaire via 5ms@aemo.com.au by Thursday 11 July 2019.	PCF Members	11 July 2019